

## CLAIMS

1. A kit comprising: (i) bacteria, (ii) a bacteria nutrient, and (iii) an antimicrobial agent.
2. The kit of claim 1, wherein the antimicrobial agent is an antifungal compound.
3. The kit of claim 1, wherein the bacteria are selected from the group consisting of: *Lactobacillus acidophilus*, *Lactobacillus bulgaricus*, *Streptococcus thermophilus*, *Bifidophilus longum*, *Bifidobacteria bifidus*, *Bacillus laterosporus*, *Bacillus Bifidum*, *Lactobacillus plantaterum*, *Lactobacillus Rueteri*, and *Lactobacillus Salivarius*.
4. The kit of claim 1, wherein the bacteria nutrient is selected from the group consisting of: spirulina, chlorophyllins, fructooligosaccharides, and methylsulfonylmethane.
5. The kit of claim 2, wherein the antifungal compound is nystatin.
6. The kit of claim 1, wherein the bacteria comprise *Lactobacillus acidophilus*, *Lactobacillus bulgaricus*, and *Streptococcus thermophilus*, wherein the bacteria nutrient comprises one or more of the group consisting of: spirulina, chlorophyllins, fructooligosaccharides, and methylsulfonylmethane, and wherein the antimicrobial agent is nystatin.
7. The kit of claim 1, wherein the bacteria comprise *Lactobacillus acidophilus*, *streptococcus thermophilus*, *lactobacillus bulgaricus*, *bifidophilus longum*,

Bifidobacteria bifidus, and Bacillus laterosporus, wherein the bacteria nutrient comprises one or more of the group consisting of: spirulina, chlorophyllins, fructooligosaccharides, and methylsulfonylmethane, and wherein the antimicrobial agent is nystatin.

8. The kit of claim 1, wherein the bacteria comprise Lactobacillus acidophilus, Bacillus bifidum, Lactobacillus bulgaricus, Lactobacillus plantaterum, Lactobacillus rueteri, Streptococcus thermophilous, Lactobacillus salivarius, and Bifidobacteria bifidus, wherein the bacteria nutrient comprises one or more of the group consisting of: spirulina, chlorophyllins, fructooligosaccharides, and methylsulfonylmethane, and wherein the antimicrobial agent is nystatin

9. A kit comprising Bifodophilus infantis and fructooligosaccharides, wherein these components are in powder form.

10. A kit comprising Lactobacillus acidophilus, Bacillus bifidum, Lactobacillus bulgaricus, Lactobacillus planterium, Lactobacillus rueteri, Streptococcus thermophilous, Lactobacillus salivarius, Bifidobacteria bifidus, and fructooligosaccharides.

11. The kit of claim 1, wherein the bacteria is prepared by filtration.

12. A method of enhancing bacteria in a patient, comprising introducing bacteria, a bacteria nutrient, and an antimicrobial agent to the patient.

13. The method of claim 12, wherein the patient is a human.

14. The method of claim 12, wherein the patient is a non-human animal.

15. The method of claim 12, wherein the bacteria and bacteria nutrient are introduced orally.

16. The method of claim 12, wherein the bacteria and bacteria nutrient are introduced rectally.

17. The method of claim 12, wherein the bacteria and bacteria are introduced vaginally.

18. The method of claim 12, wherein the antimicrobial agent is an antifungal compound.

19. The method of claim 18, wherein the antifungal compound is nystatin.

20. The method of claim 12, wherein the patient is also being treated with an antibiotic.

21. The method of claim 12, wherein the patient is also being treated with radiation, a hormone, chemotherapy, ulcer medication, a steroid, or a vaccine.

22. A method of enhancing beneficial bacteria in a patient treated with chemotherapy, comprising introducing a bacteria, a bacteria nutrient, and an antimicrobial agent to the patient.

23. A method of enhancing beneficial bacteria in a patient treated with radiation, comprising introducing a bacteria, a bacteria nutrient, and an antimicrobial agent to the patient.

24. A method of introducing beneficial bacteria to a patient treated with an antibiotic, comprising introducing a bacteria, a bacteria nutrient, and an antimicrobial agent to the patient.

25. A method of inhibiting or reducing infection in a patient, comprising introducing a bacteria, a bacteria nutrient, and an antimicrobial agent to the patient.

26. The method of claim 25, wherein the patient is suffering from a disease or condition selected from the group consisting of: cancer, acquired immunodeficiency disease, autoimmune disorders, food allergy, lactose intolerance, fatigue, malnutrition, neuropsychiatric symptoms, inflammatory bowel disease, ulcerative colitis, diarrheal diseases, diverticulitis, ostomies, ulcers, high cholesterol, chronic disease, immunocompromization, bacterial infection, yeast infection, viral infection, fungal infection, irritable bowel syndrome, Krohn's disease, periodontal disease, chronic respiratory or upper respiratory infection, ear infection, sinus infection, necrotizing enterocolitis, ileocectitis, multiple organ failure syndrome, pancreatitis, and burn injury.